Wireless Client Configuration Guide

for third-party wireless Ethernet adapters

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Wireless adapter configuration

Introduction

After your 802.11b wireless adapter is installed in your computer, you must configure it to communicate with the HomePortal. This guide describes how to configure the following wireless Ethernet (IEEE 802.11b) adapters to operate with the HomePortal:

- Agere (ORiNOCO PC Card Silver or Gold)
- Cisco (Aironet 340 Series 11Mbps Wireless LAN Adapter)
- D-Link Air DWL-650
- Apple AirPort card
- Other third-party wireless Ethernet cards

Note: The instructions for Agere, Cisco, and D-Link cards are for computers running Windows 98. The instructions for the Apple card are for computers running MacOS 9.0. Because not all Windows and Macintosh versions respond to new hardware in the same way, screens may appear in a different order and may have a slightly different appearance than the screens shown in these instructions.

Locate the serial number and wireless encryption key

Your HomePortal is configured with unique security parameters that must be configured into your wireless adapter.

On the bottom of your HomePortal you will find two important pieces of information required for configuring your adapter: the serial number and the wireless encryption key.



After you have located the serial number and wireless encryption key, perform the following steps to configure your wireless adapter.

Agere ORiNOCO PC Card - Silver or Gold

Consult the documentation provided with your wireless adapter to install the Agere ORiNOCO PC Card - Silver or Gold, then follow these steps:

1. From the Start menu, select **Programs > ORiNOCO > Client Manager**.

The ORiNOCO Client Manager screen appears.

💐 ORiNOCO Client M	anager		_ 🗆 🗵
<u>File Actions Advance</u>	t <u>H</u> elp		
	Current configuration pr	ofile HomePortal	-
Signal strength	Status Connected to network Radio connection Access Point name Channel Encryption	: 2WIRE806 : Excellent : HomePortal 1500W 806 : 6 : On	
		<u>0</u> K	H <u>e</u> lp

2. From the Actions menu, select Add/Edit Configuration Profile.



3. The Add/Edit Configuration Profile screen appears.



4. To create your profile, click **Add**. The Edit Configuration screen appears. Enter a profile name in the Profile Name field. The profile name identifies your wireless profile, and should be no more than 29 characters in length.

Sedit Configuration	? X
Select Profile	
Profile Name:	Network <u>T</u> ype:
2Wire	Access Point
- Use this screen to assign a - Select the Network Type to wireless connection for this	name to your wireless profile. identify the type of profile.
< <u>B</u> ack	<u>N</u> ext > Help

- 5. From the Network Type pulldown menu, select Access Point.
- 6. To identify your network, click Next. The Edit Configuration screen appears.

Edit Configura	tion			? ×
Identify Your Net	work			
Network N <u>a</u> me	:			
2WIRE806			<u>S</u> can	
- Use this scre network to w	en to identify th hich you wish to	e Network Name connect your c	e of the wireless computer.	
	< <u>B</u> ack	<u>N</u> ext >	Help	

 In the Network Name field, enter the word "2WIRE" followed by the last three digits of your HomePortal serial number, located on the bottom of your HomePortal. This is the Wireless Network Name. The Wireless Network Name is case-sensitive, so it is important that you enter the word "2WIRE" in capital letters. 8. Click Next. In the Set Security field, check the Enable Data Security checkbox. Verify that the Use Hexadecimal (0-9, a-f, A-F) radio button is selected.

Edit Configur	ation	? ×
Set Security—		
🔽 <u>E</u> nable D	ata Security	
O Use j	Alphanumeric Characters (0-9, a-z, A-Z)	
🖲 Usej	Hexadecimal (0-9, a-f, A-F)	
Key	6686867787	
Key <u>2</u>		
Key <u>3</u>		
Key <u>4</u>		
En <u>e</u> rypt (data with: Key 1 💌	
	< <u>B</u> ack <u>N</u> ext >	Help

- **9.** In the Key field, enter your ten-digit Wireless Encryption Key, located on the bottom of your HomePortal.
- 10. Verify that Key 1 is selected in the Encrypt data with pulldown menu (this is the default).
- 11. To select a power management option, click Next. The following screen appears.

Sedit Configuration	?	×
Power Management		
 Off (default power consumption and high performance) 		
O <u>O</u> n (lower power consumption and performance)		
 Enable Power Management for low power consumption an wireless performance. Disable Power Management for default power consumptior and high wireless performance (default). 	ł	
< <u>B</u> ack <u>N</u> ext > Help		

12. Select the power management option that you wish to use (the default is Off), and click Next.

13. In the TCP/IP Behavior field, check the Renew IP Address when selecting this profile checkbox.



14. Click Finish. The following screen appears.

2Wire		•	Add
			<u>E</u> dit
			<u>D</u> elete
Use this scree - Activate a - Add Edit o	n to: 1 wireless profile 1 1 Delete a user-0	from the pull-do defined wireles:	own menu. s profile.

15. Click **OK**.

Cisco Aironet

Consult the documentation provided with your wireless card to install the Cisco Aironet adapter, then follow these steps:

1. Double-click the Aironet Client Utility icon on your desktop. The Aironet Client Utility screen appears.



- 2. Click the Profile Manager button. The Profile Manager screen appears.
- 3. Click Add.
- **4.** In the Profile Management field, enter your profile name. The profile name identifies your wireless profile, and should be no more than 29 characters in length.

		Use Selected Profile	Driver Advanced Tab Settings	Ţ
	s To Configure My Wi	reless Network Settings O	(Windows XP Only)	
Profile Manager	ment			
	2Wire		Add	
		V	Edit	
	_		<u>R</u> ename	
	Include Profile I		Delete	
	Import	Egport	<u>∐</u> se Defaults	

5. Click Apply. The 340 Series Properties screen appears.

6. Select the **System Parameters** tab. In the Client Name field, enter a client name. The client name identifies your PC.

340 Series Properties - [2Wire]		X
340 Series Properties - (2Wire) System Parameters RF Network Client Name: SSID1: SSID2: SSID3: Power Save Mode: ☞ CAM (Constantly, © Max PSP (Max Po © Fast PSP (Power	Advanced (Infrastructure) Netw Wireless Laptop [2WIRE806 www.ReMode) wwer Savings) Save Mode)	vork Security
		Defaults DK Cancel Help

- 7. In the SSID1 field, enter the word "2WIRE" followed by the last three digits of your HomePortal serial number. This is the Wireless Network Name. The Wireless Network Name is case-sensitive, so it is important that you enter the word "2WIRE" in capital letters.
- 8. In the Power Save Mode field, verify that the CAM (Constantly Awake Mode) radio button is selected (this is the default).
- 9. In the Network Type field, verify that the Infrastructure radio button is selected (this is the default).
- **10.** Select the Network Security tab. In the WEP field, select the Use Static WEP Keys radio button.

340 Series Properties - [2Wire]	×
System Parameters RF Network Advanced (Infrastructure)	Network Security
Network Security Type: None Configure	© No WEP © Use Static WEP Keys © Use Dynamic WEP Keys
Static WEP Keys	
WEP Key Entry Method: Hexadecimal (0-9, A-F) ASCII Text	Access Point Authentication:
Set ? Key WEP Key 1: 6686867787	40 128
🗖 WEP Key 2: 🔍	• •
🗖 WEP Key 3: 🔍	• •
🖂 WEP Key 4: C	• •
Allow Association To Mixed Cells	Defaults
	OK Cancel Help

- 11. In the WEP Key Entry Method field, verify that the Hexadecimal (0-9, A-F) radio button is selected.
- **12.** In the WEP Key 1 field, select the **Transmit Key** radio button and enter your ten-digit Wireless Encryption Key, located on the bottom of your HomePortal.

13. Click **OK**. The Profile Manager screen appears. Your profile name should now appear in the second line of the Profile Management field, indicating that your Cisco adapter is properly configured.

	Use Selected	Profile 💿 🛛 🛛 🖓	e	
	Use Auto Profile Se	lection C		
Allow Windows To Configure N	ly Wireless Network S	ettings O (Win	dows XP Only)	
Profile Management				
2.6.				
Zwire			Add	
2Wire		-	<u>E</u> dit	
			<u>R</u> ename	
🔲 Include Pr	ofile In Auto Profile Se	lection	Delete	
			Delete	
Import	Ex	port	Use Defaults	

14. Click **OK**.

D-Link Air DWL-650

Consult the documentation provided with your wireless adapter to install the D-Link Air DWL-650, then follow these steps:

1. From the Start menu, select Programs > D-Link DWL-650 Control Utility > Configuration Utility.



2. The D-Link Air DWL-650 Configuration screen appears.

D-Link Air DWL-650 Configuration	×
Link Info Configuration Encryption About	
State Scanning Current Channel 6 Current Tx Rate 2 Mbits/s Throughput (Bytes/sec)	
Link Quality: Not Applicable	
Signal Strength: Not Applicable	
OK Cancel Help	

3. Select the Configuration tab.

📜 D-Link Air DWL-650 Configuration 🛛 🛛
Link Info Configuration Encryption About
Mode Infrastructure
SSID 2WIRE806
Tx Rate Fully Automatic 💌
PS Mode Disabled
Channel 📃
Restore Defaults Undo Changes Apply Changes
OK Cancel Help

- 4. In the Mode field, enter Infrastructure.
- 5. In the SSID field, enter the word "2WIRE" followed by the last three digits of your HomePortal serial number. This is the Wireless Network Name. The Wireless Network Name is case-sensitive, so it is important that you enter the word "2WIRE" in capital letters.
- 6. In the Tx Rate pulldown menu, verify that Fully Automatic is selected (this is the default).
- 7. In the PS Mode pulldown menu, verify that **Disabled** is selected (this is the default).
- 8. Click Apply Changes.
- 9. Select the Encryption tab.



- 10. From the Encryption (WEP) pulldown menu, select 64 Bit.
- **11.** In the WEP Key Entry field, select the **Manual Entry** radio button.
- **12.** In the Key 1 field, enter your ten-digit Wireless Encryption Key, located on the bottom of your HomePortal.

- **13.** From the Default Tx Key pulldown, select **1**.
- 14. Click Apply.
- **15.** Click **OK**.

Apple AirPort card

Note: Requires AirPort client software revision 2.0 or greater.

Consult the documentation provided with your wireless adapter to install the Apple AirPort wireless adapter, then follow these steps:

1. From the Apple pull-down menu, select AirPort to open the AirPort dialog box.



2. In the AirPort Network panel, click the Choose Network pull-down menu.

AirPort	Ξ
∀ Hide Settings	
AirPort	
AirPort: On Turn AirPort Off	
AirPort ID: 00 30 65 10 0D 20	
Allow selection of closed networks	
AirPort Network	
Choose network: AirPort Network 232936 主	
Signal level:	
Base Station ID: 00 60 1D 23 29 36	
Software Base Station	

3. Select your wireless network name. Your wireless network name is "**2WIRE**" followed by the last three digits of your HomePortal serial number, located on the bottom of your HomePortal.

	AirPort
Status	
AirPort Network 232936 Status not available	
∀ Hide Settings	
_AirPort	
AirPort: On	Turn AirPort Off
AirPort ID:	00 30 65 10 0D 20
	Allow selection of closed networks
AirPort Network	Computer to Computer
Choose network:	• AirPort Network 232936 🗧
Signal level:	2WIRE889 2WIRE304
Base Station ID:	22ac8b 0197a6
	AirPort Network 1eed85
③ Software Base State	tion

4. In the Password field, enter "**\$**" followed by your ten-digit Wireless Encryption Key, located on the bottom of your HomePortal.

The selected AirPort n password to join.	etwork requires a
Password:	••••
🗌 Add to Keychain	Cancel OK

5. Click OK.

Other wireless Ethernet adapters

Note: The following steps are completed using the configuration program provided with your wireless adapter. If you have not already done so, install the wireless adapter configuration software before continuing.

- 1. Set the network type to **Infrastructure**. Refer to your wireless card documentation for instructions on editing the card's network profile. Your wireless card should be configured to operate with an access point or residential gateway. This mode of operation is typically enabled by setting network type to Infrastructure.
- 2. Set the wireless network name. The wireless network name of your HomePortal is **2WIRE** in all capital letters, followed by the last three digit of the HomePortal serial number located on the bottom of your HomePortal. For example, if the last three digits of your HomePortal serial number are 102, your HomePortal network name would be 2WIRE102.

The wireless network name is sometimes referred to as the **Network Name**, **SSID**, **ESS ID**, or **Wireless LAN ID**.

3. Enable wireless security. Your HomePortal is pre-configured to take advantage of wireless security. Referring to the instructions provided with your wireless card, enable wireless security.

Wireless security is sometimes referred to as **WEP** (wired equivalent privacy), **64-bit encryption**, or **40-bit encryption**.

- 4. Enter the encryption key. Once you have enabled security on your wireless card, you need to enter the unique security key for your HomePortal. To do this, set the network encryption type to **hexadecimal**, and enter your 10-digit wireless encryption key found on the bottom of your HomePortal.
- **5.** In general, accept your card's defaults. The default value for the remainder of configurable settings for your network card should allow your wireless card to communicate with the HomePortal. Although the HomePortal is set by default to communicate using channel 6, it is not required to change your card to this setting as most cards will automatically detect the appropriate channel.

Wireless configuration with Windows XP

Note: The following steps are completed using the configuration program provided with Windows XP. If you have not already done so, install the wireless adapter configuration software before continuing. Make sure that the drivers for your adapter support Windows XP.

Windows XP is designed to handle wireless configuration in a generic manner, provided that the manufacturer's drivers support Windows XP.

1. Right-click the Wireless Network Connection icon, located in the systray.



2. Select View Available Wireless Networks.



3. The Connect to Wireless Network screen appears. In the **Available networks** field, select your wireless access point. The wireless access point displays as "**2WIRE**" in all capital letters, followed by the last three digits of the HomePortal serial number (located on the bottom of your HomePortal).

Connect to Wireless Network			
The following network(s) are available. To access a network, select if from the list, and then click Connect.			
Available <u>n</u> etworks:			
1 2WIRE806			
1 2WIRE002			
2WIRE915			
This network requires the use of a network key (WEP). To access this network, type the key, and then click Connect.			
Network key:			
If you are having difficulty connecting to a network, click Advanced.			
Advanced Connect Cancel			

4. In the **Network key** field, enter your ten-digit Wireless Encryption Key, located on the bottom of your HomePortal.

Connect to Wireless Network			
The following network(s) are available. To access a network, select it from the list, and then click Connect. Available networks:			
2WIRE806 2WIRE002 2WIRE915 2WIRE940			
This network requires the use of a network key (WEP). To access this network, type the key, and then click Connect.			
If you are having difficulty connecting to a network, click Advanced.			
Advanced Connect Cancel			

- 5. Click Connect.
- 6. A notification message now appears next to the Wireless Network Connection icon indicating that your wireless adapter is connected to your network.



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